

In the Title

Please amend the title of this application to read as follows:

- AUTOMATED METHOD AND CLUSTERING SYSTEM USING  
NON-PROBABILISTIC WEIGHTING -

In the Claims

Please cancel claim 3 and 13 without prejudice.

A clean version of the entire set of pending claims is submitted below pursuant to 37 C.F.R. § 1.121(c)(3). Accordingly, please replace the previous version of claims 1-25 with those below, in which claims 1, 4, 12-16 and 18 have been amended. Claims 3 and 13 have been canceled without prejudice.

1. (Amended) 1. A method of classifying a plurality of informational items in an information retrieval system, comprising the steps of:

detecting an access of a first informational item;

detecting an access of a second informational item;

applying an ensemble of clustering algorithms;

creating a relationship link between said first informational item and second informational item ; and

determining a non-probabilistic weighting or strength for said relationship link.

2. The method as recited in claim 1 wherein said step of detecting the second informational item includes the detecting of a plurality of informational items.

3. (CANCELLED without prejudice)

4. (Amended) The method as recited in claim 2, further comprising  
the step of :

applying an algorithm for data aging wherein the usage of the relationship  
link is monitored and used as feed back for the weighting  
associated with the relationship link.

5. The method as recited in claim 4, further comprising the step of :  
applying a pruning algorithm wherein external information regarding the  
usefulness of at least one relationship link is utilized to modify  
weighting/strength or existence of a recorded relationship link.

6. The method as recited in claim 5, wherein said pruning algorithm  
is repeatedly applied to determine if a recorded relationship link should be ignored or  
placed in a list of bad links.

7. The method as recited in claim 5, wherein said pruning algorithm  
makes use of a user determined feedback of the usefulness of a relationship link.

8. The method as recited in claim 2, wherein said ensemble includes a  
plurality of algorithms and wherein said relationship link is weighted in direct proportion  
to the number of algorithms within said ensemble of algorithms that determine the  
existence of said relationship link.

9. The method as recited in claim 2, wherein said relationship link is  
positioned in a list in direct proportion to the degree of consensus among said ensemble  
of algorithms.

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10. The method as recited in claim 2, wherein said ensemble includes a plurality of algorithms and wherein each algorithm within said ensemble of algorithms runs independently of all other algorithms.

11. The method as recited in claim 2, further comprising the step of merging the outputs of said ensemble of algorithms.

12. (Amended) The method as recited in claim 2, further comprising the step of recording said relationship link in a non-probabilistic Network.

13. (CANCELLED without prejudice)

14. (Amended) An apparatus for providing classification of informational items in an information retrieval system comprising:

means for detecting an access of informational items;

means for applying an ensemble of clustering algorithms;

means for creating relationship links between said informational items to enhance the effectiveness of said system ;

means for weighting said relationship links; and

means for arranging said relationship links in direct proportion to the outcome of said ensemble of algorithms.

15. (Amended) The apparatus of claim 14 including:

means for aging said relationship links; and

means for pruning said relationship links.

16. (Amended) The apparatus of claim 15 including means for merging the resulting output of said ensemble of algorithms into a non-probabilistic Network.

17. A computer readable storage medium having stored thereon a computer program for implementing a method of classifying a plurality of information items in an information retrieval system, said computer program comprising a set of instructions for implementing the steps recited in claim 2.

18. (Amended) The computer readable storage medium according to claim 17, wherein said computer program further comprises one or more instructions for clustering the resulting output of said ensemble of algorithms into a non-probabilistic Network.

19. The computer readable storage medium according to claim 17, wherein said computer program further comprises one or more instructions for improving the usefulness of said relationship links through weighting of said relationship links.

20. The computer readable storage medium according to claim 17, wherein said computer program further comprises one or more instructions for improving the usefulness of said relationship links through pruning of said relationship links.

21. The computer readable storage medium according to claim 17, wherein said computer program further comprises one or more instructions for improving the usefulness of said relationship links through aging of said relationship links.

22. The computer readable storage medium according to claim 17, wherein said computer program further comprises one or more instructions for improving